

ABSTRACT

A method for determining positional relationships among objects represented in a database. A plurality of tiles are defined. A distribution of objects with respect to the tiles is determined. The distribution of objects is compared with respect to the tiles to identify objects fulfilling a primary filter condition related to an interaction of the objects with respect to the tiles. Objects are identified that fulfill a secondary filter condition related to an interaction of the geometries of the objects by analyzing the distribution of objects that fulfill the primary filter condition with respect to the tiles. Objects are identified that fulfill the secondary filter condition by comparing geometries of objects that fulfill the primary filter condition that the analysis does not identify as fulfilling the secondary filter condition.